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DATE MAILED: 03/15/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/509,807	04/28/2000	WILFRIED MODROW	3245-734PUS 9810	
7:	590 03/15/2004		EXAM	INER
THOMAS C	PONTANI		TRAN	, LEN
COHEN PONT	`ANI LIEBERMAN & PA	VANE		
551 FIFTH AVENUE			ART UNIT	PAPER NUMBER
<b>SUITE 1210</b>			1725	
NEW YORK	NV 10176	•		

Please find below and/or attached an Office communication concerning this application or proceeding.

. 4		Application No.	Applicant(s)				
		09/509,807	MODROW ET AL:				
	Office Action Summary	Examiner	Art Unit				
		Len Tran	1725				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 31 De	ecember 2003.					
•	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)[							
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Dispositi	on of Claims						
	Claim(s) <u>5 and 8</u> is/are pending in the applicati 4a) Of the above claim(s) is/are withdray						
	Claim(s) is/are allowed.						
,	Claim(s) <u>5,8</u> is/are rejected.						
7)	Claim(s) is/are objected to.		·				
8)[	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers	, and the second second					
9)[	The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)[	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex						
Priority (	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign  ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document						
	3. Copies of the certified copies of the prior		ed in this National Stage				
	application from the International Bureau	· ·	ad .				
- 8	See the attached detailed Office action for a list	or the certified copies not receive	cu.				
Attachmen	t(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
3) Infon	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Date of Informal Paper No(s) Other:	ate Patent Application (PTO-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 5 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Welker et al (US 5,988,259).

Welker et al disclose the method for determining and controlling the material flow of continuous cast slabs in transport and processing paths between the continuous casting installation and a rolling mill by monitoring and optimizing the temperature on the transport and processing paths comprising the steps of determine the temperature of the liquid phase at the mold exit including temperature dependent material values comprising at least one of density, specific heat, or thermal conductivity, during the flow in the transport path, measuring a surface temperature of the slab over time and determine an amount of heat and a temperature profile of the temperature profile of the continuous slab over time by calculating the convective mixing of the amount of heat in the slab, wherein calculating using a mathematical model using one of a two-dimensional finite element, and controlling the flow of the slab in the transport and processing path using measured surface temperature of the slab and temperature profile in

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previous step as input to the slab monitoring system (col. 3, lines 8-15, col. 4, line 5- col. 5, line 15, col. 5, lines 39-45.

## Response to Arguments

3. Applicant's arguments filed on December 31, 2003 have been fully considered but they are not persuasive.

Applicant argues that Welker et al fail to teach "measuring a surface temperature of the continuous cast slab over time and determining an amount of heat and a temperature profile of the continuous cast slab". Examiner respectfully disagrees, since Welker et al disclose the claimed invention in column 2, lines 31-41 and column 4, lines 35-36, wherein Welker et al disclose that heat is calculated from the surface temperature of the strand.

In addition, applicant argues that Welker et al fail to teach using a two-dimensional finite element method for calculating the heat transfer. However, in column 4, lines 5-15 of Welker et al, a cooling model is implemented as a two-dimensional model for the strand. Therefore, Welker et al disclose the claimed invention as claimed.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The

examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Len Tran

Examiner

Kiley Stoner AU 1725 Art Unit 1725 Ally Home 3/6/04

LT March 5, 2004